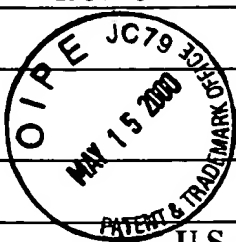


## LIST OF PRIOR ART CITED BY APPLICANT

ATTY. DOCKET: 17327CIP(HL)	SERIAL NO.: 09/552,823
APPLICANT: Pacifi et al	TITLE: USE OF RETINOID RECEPTOR ANTAGONISTS OR AGONISTS IN THE TREATMENT OF CARTILAGE BONE PATHOLOGIES
FILING DATE: April 20, 2000	GROUP: Not Assigned



## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUB-CLASS	FILING DATE (if applicable)
2-f	AA	5,877,207	3/2/1999	Klein et al			
2-f	AB	5,514,825	5/7/1996	Vuligonda et al			
2-f	AC	5,648,514	7/15/1997	Johnson et al			
2-f	AD	5,728,846	3/17/1998	Vuligonda et al			
2-f	AE	5,739,338	4/14/1998	Beard et al			
2-f	AF	5,760,276	6/2/1998	Beard et al			
2-f	AG	5,776,699	7/7/1998	Klein et al			
2-f	AH	5,773,594	6/30/1998	Johnson et al			
2-f	AI	5,763,635	6/9/1998	Vuligonda et al			
2-f	AJ	5,808,124	9/15/1998	Beard et al			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION (yes/no)
	AL	WO 93/11755	6/24/1993	PCT			

## OTHER PRIOR ART

(Including Author, Title, Date, Pertinent Pages, etc.)

2-f	AT	Jacenko et al, "Transgenic Mouse Models in Studies of Skeletal Disorders", J. Rheumatol. 22: 39-41 (1995)
2-f	AU	Coffin et al, "Abnormal Bone Growth and Selective Translational Regulation in Basic Fibroblast Growth Factor (FGF-2) Transgenic Mice", Mol. Biol. Cell, 6: 1861-1873(1995)
2-f	AV	Colvin et al, "Skeletal overgrowth and deafness in mice lacking fibroblast growth factor receptor 3", Nature Genet, 12: 390-397(1996)
2-f	AW	Vortkamp et al, "Regulation of Rate of Cartilage Differentiation by Indian Hedgehog and PTH-Related Protein" Science, 273: 613-622 (1996)
2-f	AX	Hamerman, "The Biology of Osteoarthritis", New Engl. J. Med. 320 (20), 1322-1330 (1989)
2-f	AY	von der Mark et al, "Upregulation of type X collagen expression in osteoarthritic cartilage", Acta Orthop. Scand., (Suppl 266) 125-129 (1995)
2-f	AZ	Robbins et al, "Bones", Pathological Basis of Disease, W.B. Saunders Co. (1979); 1477-1513
2-f	BA	Koyama et al, "Retinoid Signaling Is Required for Chondrocyte Maturation and Endochondral Bone Formation during Limb Skeletogenesis", Develop. Biol. 208(2):375-391 (1999)

EXAMINER

Zohrab Fay

DATE CONSIDERED

2/7/01

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



**LIST OF PRIOR ART CITED BY APPLICANT**

<b>ATTY. DOCKET:</b> 17327CIP(HL)	<b>SERIAL NO.:</b> 09/552,823
<b>APPLICANT:</b> Pacifici et al	<b>TITLE:</b> USE OF RETINOID RECEPTOR ANTAGONISTS OR AGONISTS IN THE TREATMENT OF CARTILAGE BONE PATHOLOGIES
<b>FILING DATE:</b> April 20, 2000	<b>GROUP:</b> Not assigned

**OTHER PRIOR ART**

(Including Author, Title, Date, Pertinent Pages, etc.)

2-f	BB	Noji et al, "Expression Pattern of the Homeobox Gene HOX-3.5 During Mouse Development, as Revealed by a Simplified In Situ Hybridization Method", Acta Histochem, Cytochem. 23(3): 353-366 (1990)
2-f	BC	Koyama et al, "Syndecan-3, Tenascin-C, and the Development of Cartilaginous Skeletal Elements and Joints in Chick Limbs", Dev. Dynam. 203: 152-162 (1995)
2-f	BD	Noji et al, "Retinoic acid induces polarizing activity but is unlikely to be a morphogen in the chick limb bud", Nature 350: 83-86 (1991)
2-f	BE	Michaille et al, "Characterization of cDNAs Encoding the Chick Retinoic Acid Receptor $\gamma$ 2 and Preferential Distribution of Retinoic Acid Receptor $\gamma$ Transcripts During Chick Skin Development", 334 Dev. Dynam. 201: -343(1994)
2-f	BF	Bennett et al, "Cartilage-specific 5' End of Chick $\alpha$ 2(I) Collagen mRNAs*", J. Biol. Chem. 264 (14): 8402-8409 (1989)
2-f	BG	Leboy et al, "Ascorbic Acid Induces Alkaline Phosphatase, Type X Collagen, and Calcium Deposition in Cultured Chick Chondrocytes*", J. Biol. Chem. 264 (29): 17281-17286(1989)
2-f	BH	Young et al, "Isolation of cDNA and genomic DNA clones encoding type II collagen", Nucl. Acids Res. 12 (10): 4207-4228
2-f	BI	Apfel et al, "A retinoic acid receptor $\alpha$ antagonist selectively counteracts retinoic acid effects", Proc. Natl. Acad. Sci. 89: 7129-7133(1992)
2-f	BJ	Keidel et al., "Different Agonist- and Antagonist-Induced Conformational Changes in Retinoic Acid Receptors Analyzed by Protease Mapping", Mol. Cell. Biol. 14 (1): 287-298 (1994)
2-f	BK	Klein et al, "Identification and Functional Separation of Retinoic Acid Receptor Neutral Antagonists and Inverse Agonists*", J. Biol. Chem. 271 (37): 22692-22696 (1996)
2-f	BL	Lu et al, "Retinoid signaling is required for the establishment of a ZPA and for the expression of Hoxb-8, a mediator of ZPA formation", Development 124: 1643-1651 (1997)
2-f	BM	Hamburger et al, "A Series of Normal Stages in the Development of the Chick Embryo", J. Morphol. 88: 49-92 (1951)
2-f	BN	Gibson et al, "Type X Collagen Synthesis by Chick Sternal Cartilage and Its Relationship to Endochondral Development", J. Cell Biol. 101: 277-284 (1985)
2-f	BO	Pacifici et al, "Retinoic Acid Treatment Induces Type X Collagen Gene Expression in Cultured Chick Chondrocytes", Exp. Cell Res. 195: 38-46 (1991)
2-f	BP	Iwamoto et al, "Retinoic Acid Induces Rapid Mineralization and Expression of Mineralization-Related Genes in Chondrocytes", Exp. Cell Res. 207: 413-420 (1993b)

EXAMINER Zachary Fung DATE CONSIDERED 2/7/01

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



**LIST OF PRIOR ART CITED BY APPLICANT**

<b>ATTY. DOCKET:</b> 17327CIP(HL)	<b>SERIAL NO.:</b> 09/552,823
<b>APPLICANT:</b> Pacifici et al	<b>TITLE:</b> USE OF RETINOID RECEPTOR ANTAGONISTS OR AGONISTS IN THE TREATMENT OF CARTILAGE BONE PATHOLOGIES
<b>FILING DATE:</b> April 20, 2000	<b>GROUP:</b> Not assigned

**OTHER PRIOR ART** (Including Author, Title, Date, Pertinent Pages, etc.)

2.f	BQ	Chomczynski et al, "Single-Step Method of RNA Isolation by Acid Guanidinium Thiocyanate-Phenol-Chloroform Extraction", Anal. Biochem. 162: 156-159 (1987)
2.f	BR	Oettinger et al, "Type X Collagen Gene Expression Is Transiently Up-Regulated by Retinoic Acid Treatment in Chick Chondrocyte Cultures", Exp. Cell Res. 191: 292-298 (1990)
2.f	BS	Iwamoto et al, "Responsiveness to Retinoic Acid Changes during Chondrocyte Maturation", Exp. Cell Res. 205: 213-224 (1993a)
2.f	BT	Wagner et al, "Regional differences in retinoid release from embryonic neural tissue detected by an in vitro reporter assay", Development 116: 55-66 (1992)
2.f	BU	McCaffery et al, "Asymmetrical retinoic acid synthesis in the dorsoventral axis of the retina" Development 115: 371-382 (1992)
2.f	BV	Ellis et al, "Phosphorylation of GAP and GAP-associated proteins by transforming and mitogenic tyrosine kinases", Nature 343: 377-381 (1990)
2.f	BW	Zelent et al, "Cloning of murine $\alpha$ and $\beta$ retinoic acid receptors and a novel receptor $\gamma$ predominantly expressed in skin", Nature 339: 714-717 (1989)
2.f	BX	Levin et al, "9-Cis retinoic acid stereoisomer binds and activates the nuclear receptor RXR $\alpha$ " Nature 355: 359-361 (1992)
2.f	BY	Lim et al, "A Simple Assay for DNA Transfection by Incubation of the Cells in Culture Dishes with Substrates for Beta-Galactosidase", Biotechniques 7 (6), 576-579 (1989)
2.f	BZ	Fell, "The Histogenesis of Cartilage and Bone in the Long Bones of the Embryonic Fowl", J. Morphol. Physiol. 40: 417-459 (1925)
2.f	CA	Scott-Savage et al, "The Timing of the Onset of Osteogenesis in the Tibia of the Embryonic Chick", J. Morphol 162: 453-464 (1979)
2.f	CB	Osdoby et al, "First Bone Formation in the Developing Chick Limb", Dev. Biol. 86: 147-156 (1981)
2.f	CE	Koyama et al, "Early Chick Limb Cartilaginous Elements Possess Polarizing Activity and Express Hedgehog-Related Morphogenetic Factors", Dev. Dynam. 207344-354 (1996)
2.f	CF	Iwamoto et al, "Retinoic Acid Is a Major Regulator of Chondrocyte Maturation and Matrix Mineralization", Microsc. Res. Tech. 28: 483-491 (1994)
2.f	CG	Nerlich et al, "Immunohistochemical analysis of interstitial collagens in cartilage of different stages of osteoarthritis", Vichows Archiv. B. Cell Pathol. 63, 249-255 (1993)
2.f	CH	Weston et al, "Regulation of Skeletal Progenitor Differentiation by the BMP and Retinoid Signaling Pathways", The Journal of Cell Biology, Vol. 148, (4), 679-690 (2000)

EXAMINER

*John F. [Signature]*

DATE CONSIDERED

2/7/01

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.